

CLAIMS

What is claimed is:

1. A method of managing power generated within a computer system, the method comprising:
operating the computer system at a first central processing unit (CPU);
receiving a first signal generated by a thermal sensor within the first CPU; and
resuming operation of the computer system at a second CPU.

2. The method of claim 1 further comprising determining a least recently used (LRU) CPU in the computer system upon receiving the signal from the first CPU.

3. The method of claim 2 wherein the second CPU is the LRU CPU.

4. The method of claim 2 further comprising:
receiving a second signal generated by a thermal sensor within the second CPU;
determining a CPU in the computer system; and
resuming operation of the computer system at a third CPU.

5. A computer system comprising:
a first central processing unit (CPU); and
a second CPU, wherein the operation of the computer system is transferred from the first CPU to the second CPU upon the first CPU reaching a predetermined power threshold.

6. The computer system of claim 5 wherein the first CPU and the second CPU each include a thermal sensor.

1 7. The computer system of claim 6 wherein the operation of the computer system is
2 transferred from the first CPU to the second CPU upon the thermal sensor within the first
3 CPU measuring the predetermined power threshold.

1 8. The computer system of claim 5 further comprising a cooling system.

1 9. The computer system of claim 8 wherein the cooling system comprises:
2 a heat pipe coupled to the first CPU and the second CPU;
3 a heat exchanger; and
4 a cooling fan.

1 10. The computer system of claim 1 further comprising a third CPU, wherein the
2 operation of the computer system is transferred from the second CPU to a least recently
3 used (LRU) CPU upon the second CPU reaching a predetermined power threshold.

1 11. The computer system of claim 10 wherein the third CPU is the LRU CPU.

1 12. A cooling system comprising:
2 a heat pipe; and
3 a first central processing unit (CPU) coupled to the heat pipe, wherein the first
4 CPU is active until reaching a predetermined power threshold.

1 13. The cooling system of claim 12 further comprising a second CPU, wherein the
2 second CPU becomes active upon the first CPU reaching the predetermined power
3 threshold.

1 14. The cooling system of claim 12 further comprising:

2 a second CPU; and
3 a third CPU, wherein a least recently used (LRU) CPU becomes active upon the
4 first CPU reaching the predetermined power threshold.

1 15. The cooling system of claim 14 wherein the third CPU is the LRU CPU.

1 16. The cooling system of claim 12 further comprising:
2 a block coupled between the first CPU and the heat pipe;
3 heat exchanger; and
4 a cooling fan.

5